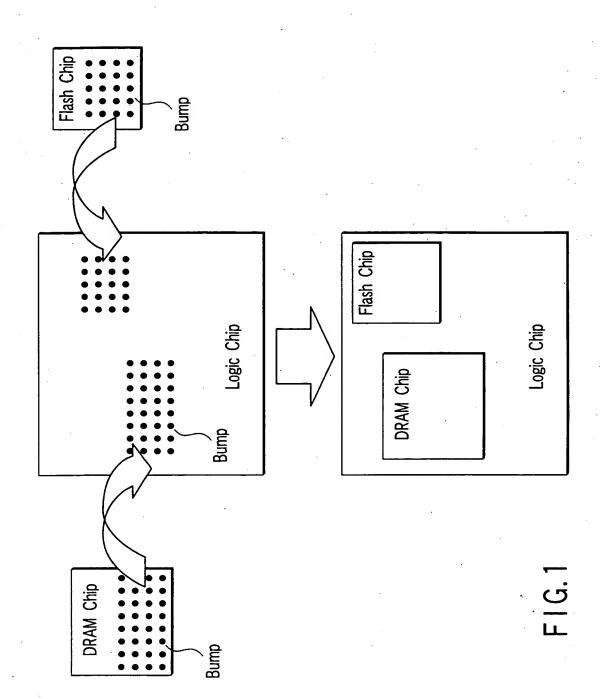
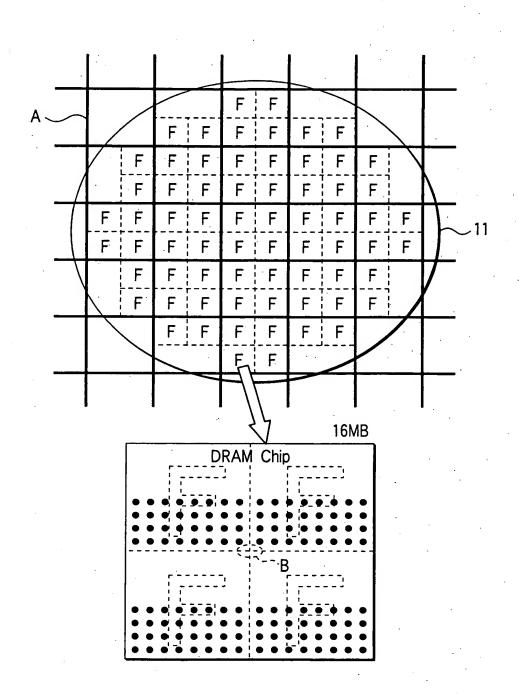
Oblon, Spivak, et al. Docket No. 249344US2SDIV Inv: Yukihiro URAKAWA Sheet 1 of 16

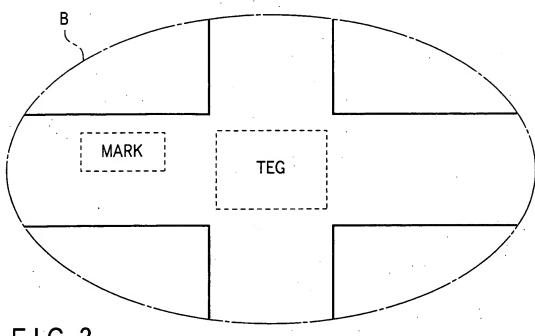


Oblon, Spivak, et al. Docket No. 249344US2SDIV Inv: Yukihiro URAKAWA Sheet 2 of 16

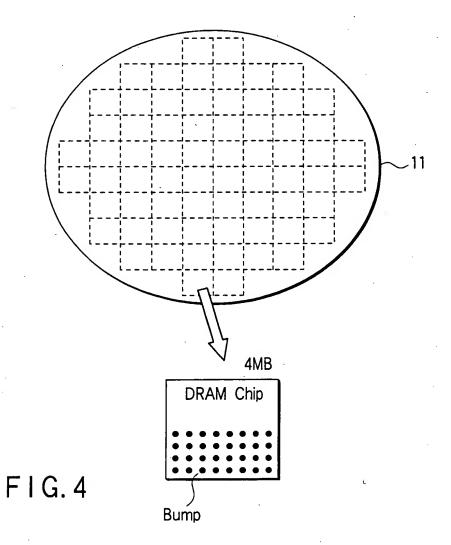


F I G. 2

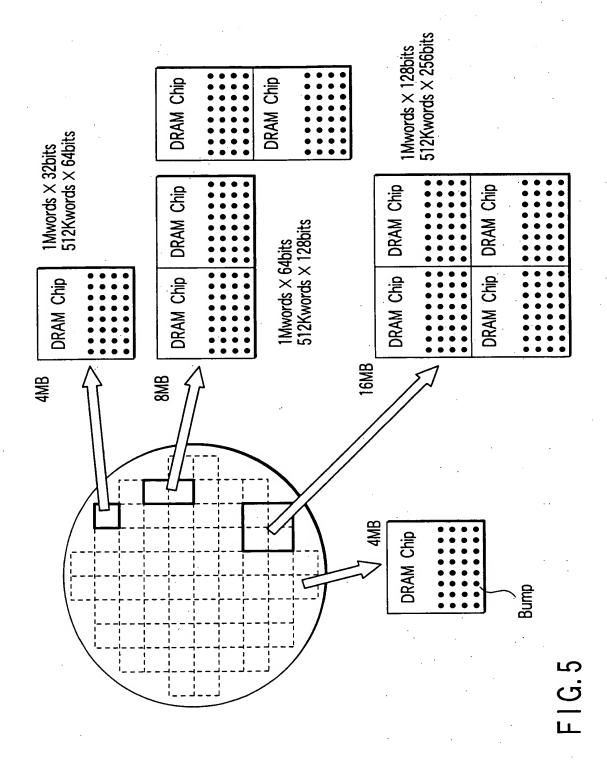
Oblon, Spivak, et al. Docket No. 249344US2SDIV Inv: Yukihiro URAKAWA Sheet 3 of 16



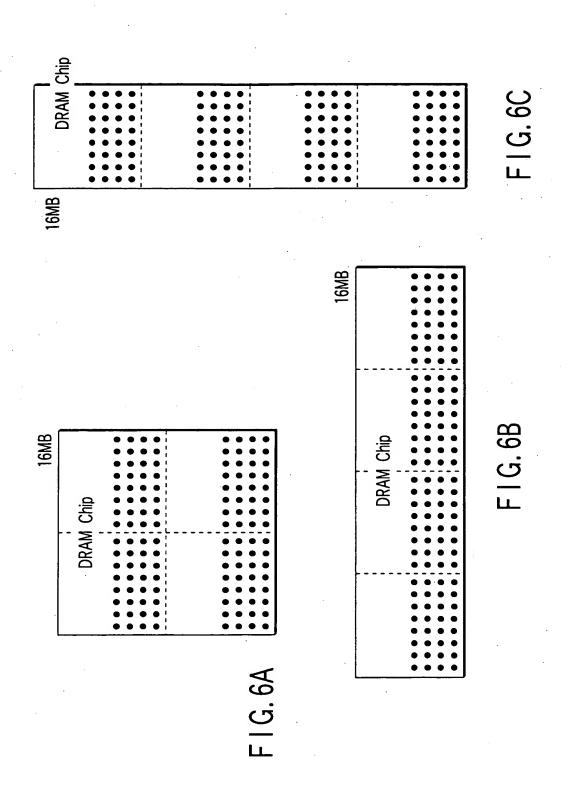
F I G. 3



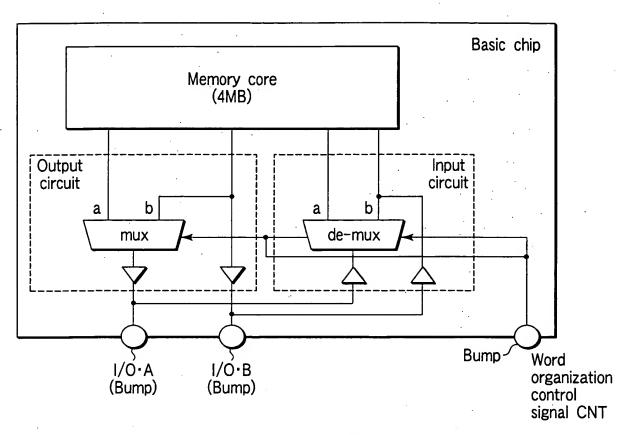
Oblon, Spivak, et al. Docket No. 249344US2SDIV Inv: Yukihiro URAKAWA Sheet 4 of 16



Oblon, Spivak, et al. Docket No. 249344US2SDIV Inv: Yukihiro URAKAWA Sheet 5 of 16



Oblon, Spivak, et al. Docket No. 249344US2SDIV Inv: Yukihiro URAKAWA Sheet 6 of 16



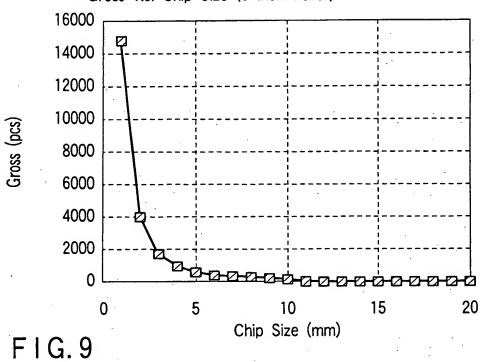
F I G. 7

*In the case where word organization Determine memory capacity of basic chip (i byte) of basic chip is changeable, the word ~ST1 organization of basic chip is set to the following expression ST2 Form plural basic chips in wafer Word organization of basic chip = Word organization required by user Number of basic chip Test of basic chip ST3 ~ST4 Determine number of basic chips Reconfirm memory to configure one COC memory capacity required by user chip Determine COC memory chip ST5 cutout shape Dicing ST6 ~ST7 Complete COC memory chip - ST8 Form COC device Logic chip

F1G.8

Oblon, Spivak, et al. Docket No. 249344US2SDIV Inv: Yukihiro URAKAWA Sheet 8 of 16

Gross v.s. Chip Size (6-inch wafer)



Chip Efficiency v.s. Chip Size (6-inch wafer)

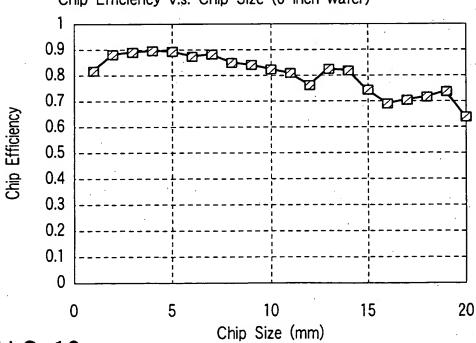
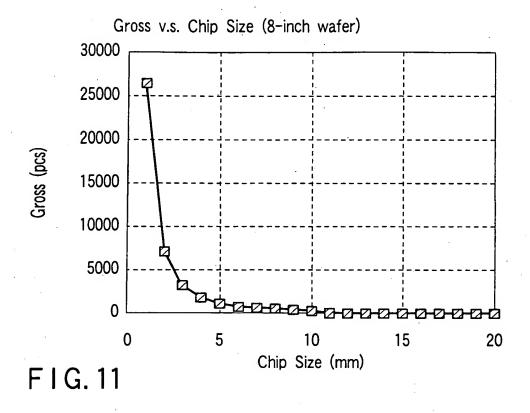
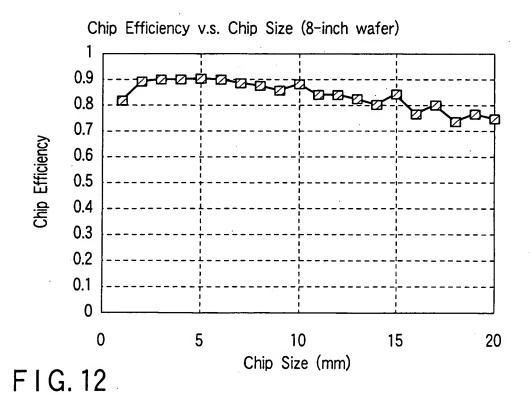


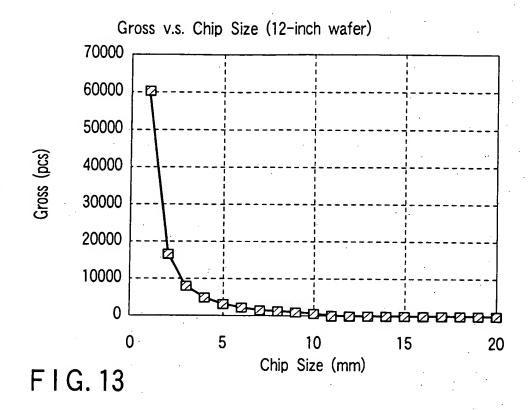
FIG. 10

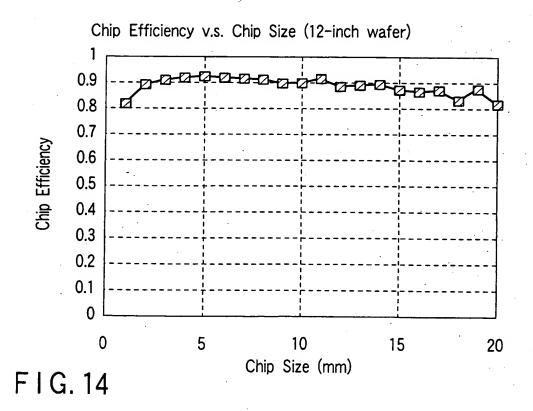
Oblon, Spivak, et al. Docket No. 249344US2SDIV Inv: Yukihiro URAKAWA Sheet 9 of 16





Oblon, Spivak, et al. Docket No. 249344US2SDIV Inv: Yukihiro URAKAWA Sheet 10 of 16





Oblon, Spivak, et al. Docket No. 249344US2SDIV Inv: Yukihiro URAKAWA

Sheet 11 of 16

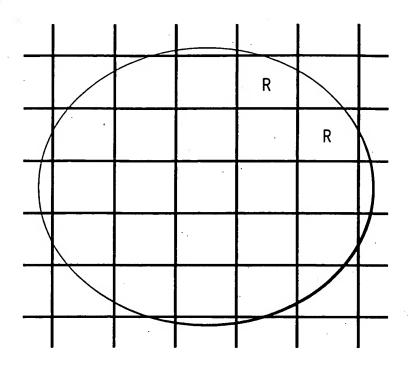
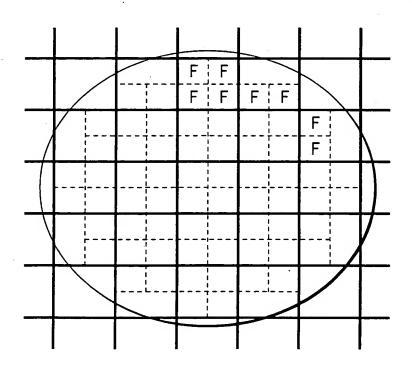


FIG. 15A PRIOR ART



F I G. 15B

Oblon, Spivak, et al. Docket No. 249344US2SDIV Inv: Yukihiro URAKAWA Sheet 12 of 16

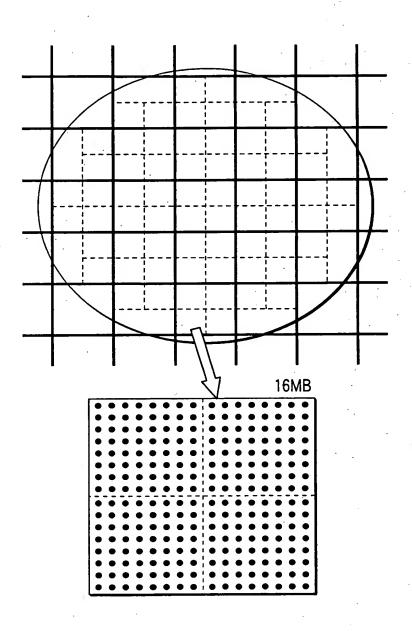
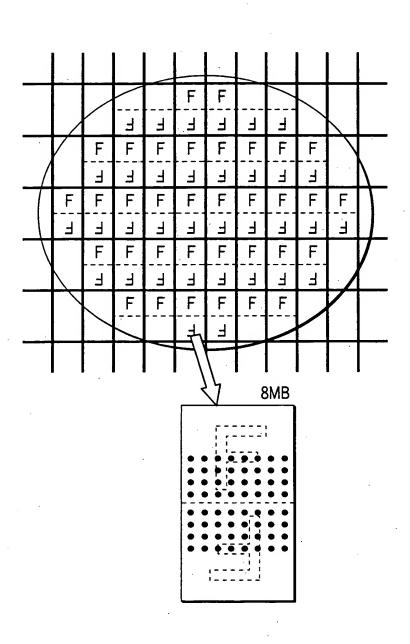


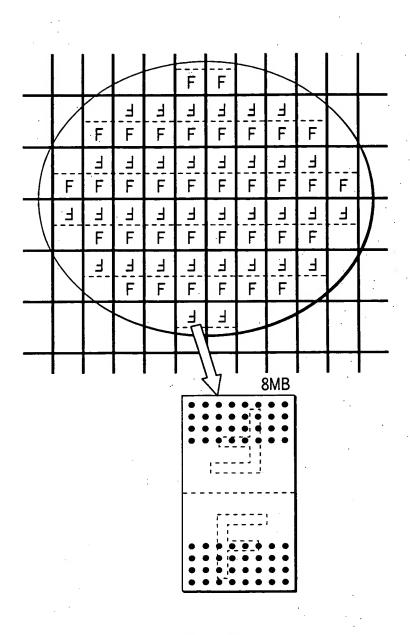
FIG. 16

Oblon, Spivak, et al. Docket No. 249344US2SDIV Inv: Yukihiro URAKAWA Sheet 13 of 16



F I G. 17

Oblon, Spivak, et al. Docket No. 249344US2SDIV Inv: Yukihiro URAKAWA Sheet 14 of 16



F I G. 18

Oblon, Spivak, et al. Docket No. 249344US2SDIV Inv: Yukihiro URAKAWA Sheet 15 of 16

MCM 1

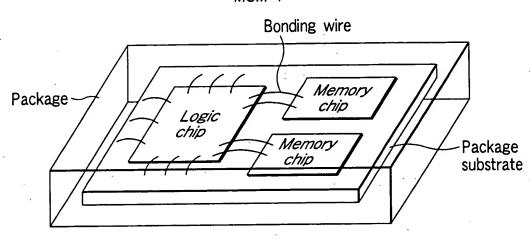
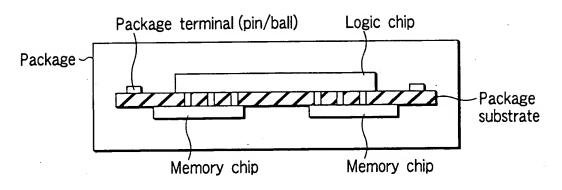


FIG. 19

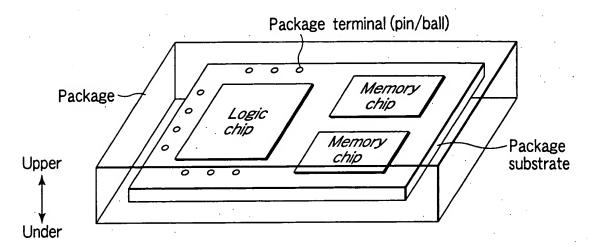
MCM 3



F I G. 21

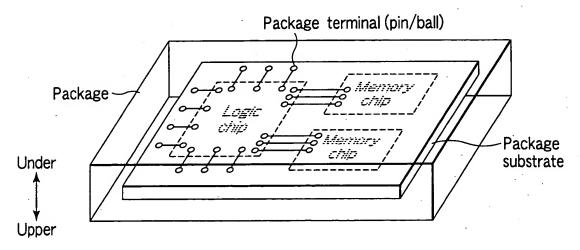
Oblon, Spivak, et al. Docket No. 249344US2SDIV Inv: Yukihiro URAKAWA Sheet 16 of 16

MCM 2



F I G. 20A

MCM 2



F I G. 20B